

SWARCer NEWS

General Meeting

**Monday, November 7,
2016**

Meeting called to order at 7:07
p.m. by Steve (KA0GMY).

Opening Announcements

- Tickets for sale for the December raffle.
- Steve is selling. \$5/each.
- Three prizes are being offered this year.
- A motion was made to give \$50 for the Ham of the Year Award; the motion was seconded; the motion passed.

- First Place Prize: Connect Systems CS 800 DMR mobile radio
- Second Place Prize: Kenwood TM-281A 144MHz FM transceiver
- Third Place Prize: SignalLink™ USB sound card - radio interface by Tigertronics

- Ticket sales are brisk; SWARC still has tickets to sell
- Table 35 is SWARC's table at JARSFEST
- The club station space is in the process of being secured; Greg says that by the first of the year, things should be moving along with the Post (via Tim, W4TAR)
- Mike Callam, KD4UJC: JARSFEST tickets are \$7



Public Service Through Amateur Radio

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of our members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

ATTENDANCE

KA0GMY	Steve
	Gloria
KM4TLE	Dickie
KD4MC	Mike
K4VJC	Velda
KE4NX	Dianne
KC2HVO	Chris
K4AAA	Ron
KK4QDZ	Bill
WA4AZL	Neil
KM4WUA	Brian
KI4LO	Linda
WA4TCJ	AL
NC4KG	Glenn
KM4PFV	Jason
KJ4AEO	Christy
KI4YXO	Gino
NC4DH	Donn
KM4JYR	Bradley
KM4KUT	Nancy
	Liz
AA4JR	John
KM4QVG	Bernie
K4MWG	Mike
KM4DMO	Nick
AJ4NX	Adrian



Club News and World (LOCAL) Events

Hi everyone as the new editor of the club newsletter I want everyone to know what to expect. I am hoping to have the newsletter out the first weekend after the club meeting. So if you have information you want included then I will need it that weekend. If you take part in a special event the write it up and submit it along with some pictures.

We will be happy to include your articles. If you would like to write about something going on in the club (good or bad) we will be happy to include your article. Please remember this is your newsletter and your contributions are appreciated.

Send articles to

Ka0gmy@bellsouth.net

- each at the door; \$6 in advance

Treasurer's Report by Christy (KJ4AEO)

- \$3,477.90 as of November 7, 2016
- The balance includes payments for all the prizes

Net Control Report (from KAOGMY via KT4JR)

- 687 check-ins for the month
- 31 members checking into the nets regularly
- 108 visitors
- Please make sure you turn in your net reports to Ms. Julie (KT4JR) in a timely manner.

Public Service Report by Wade (KW4EMG)

- Wade was not in attendance this evening.
- See southwakearc.com for additional information on public service events.

Vice President's Report (NW3U)

- Dave was not in attendance this evening.
- No report was provided.

Meeting Program

- Karl Bowman, W4CHX (w4chx@arrl.org)
- ARRL North Carolina Section Manager
- 20,294 licensed HAMS in North Carolina

- data provided by www.ah0a.org and www.arrl.org
- 740,784 licensed HAMS in the United States
- >73 ARRL-affiliated clubs in North Carolina Section

Meeting was adjourned at 8:31 p.m.

Respectfully submitted,

Nancy (KM4KUT)

Membership

Ryan, NC4RA has reported that he is receiving new applications weekly. This is great to know that we are a part of a growing club. If you have a question about your membership or want to inquire about becoming a member please contact Ryan, NC4RA at rwavery@charter.net.

Raffle

The following items will be given out as a results of the club raffle at the Christmas social.



Club News
and World
(local) Events

BOARD OF DIRECTORS

President

Steve Mowels - KA0GMY

Vice President

David Krum – NW3U

Secretary

Nancy Butterfield – KM4KUT

Treasurer

Christy Fernandini - KJ4AEO

Member-At-Large

Ryan Sheppard – K4OKI

Member-At-Large

Tim Ruffin – W4TAR

Member-At-Large

Bradley Norton – KM4JYR

Membership Chair

Ryan Avery , NC4RA

APPOINTED POSITIONS

Net Manager

Julie Royster - KT4JR

Special Events Director

Gino Fernandini - KI4YXO

Public Service Director

Wade Gutreuter –

KW4EMG

Connect System CS800
DMR \$280.00

Kenwood TM-281A 2
meter mobile \$137.95

Signalink USB Interface
\$99.99

There are still plenty of
tickets left so be sure to
get yours. They are only
\$5.00 a piece.

NET REPORT

--October 2016 Net Report---

Our nets remain popular with
members and guests alike. During
October 3
members checked in to all 31
nightly nets: Kenny KJ4CVK, Dickie
KM4TLE,
and me. It's great to have such a
lively community. Below are the
statistics and the stations who
checked in at least 15 times this
month.

Respectfully submitted,
Julie KT4JR

Net sessions: 31
Members participating: 38
Visitors participating: 108
Total checkins ("QNI") 687

Net control operators listing:

KT4JR	M	5
KA0GMY	M	4
NC4MP	M	4
KJ4CVK	M	4
KM4JYR	M	4
AJ4NX	G	4
KW4EMG	M	2
N4RMV	M	1
KM4KUT	G	1

Top QNI listing:

31 KT4JR
31 KJ4CVK
31 KM4TLE
28 KK4QDZ
26 WA3JJG (Guest)
24 KW4EMG
23 NC4MP
21 WA4TCJ
19 KI4WAI (Guest)
18 KD4KII (Guest)
18 KN4OO (Guest)
17 KA0GMY
16 KK4BVU (Guest)

South Wake Amateur
Radio Club Treasurer

Report

October 2016

Club Addition and
Reduction Activity

Additions

Dues \$30.00 KM4QDX

Dues \$22.50 K9ZLA

Dues \$22.50 KM4MBS

Total Additions \$75.00

Reductions

HRO \$237.90 Purchase of
 raffle prizes

Ryan Avery \$292.00

 Reimbursement
 for purchase
 of raffle prize

Total Reductions \$529.90

RBC Bank Account
Activity

Balance as of

10/03/2016 \$3932.80

Additions \$75.00

Reductions \$529.90

Balance as of

11/06/2016 \$3477.90

Christine Fernandini
KJ4AEO

Two Radio Amateurs
Set to Join ISS Crew

11/11/2016

Astronauts Peggy Whitson, KC5ZTD, and Thomas Pesquet, KG5FYG, and Cosmonaut Oleg Novitskiy will head into space on November 17 for a 6-month stay aboard the International Space Station. **NASA**

Television coverage will begin at 1730 UTC on November 16. The launch from Baikonur Cosmodrome in Kazakhstan will be at 1820 UTC on November 17. It will take the Expedition 50/51 crew members 2 days to reach the ISS in their Soyuz vehicle.

Welcoming the new crew increment will be Expedition 50 Commander Shane Kimbrough, KE5HOD, and crew members Sergey Ryzhikov and Andrey Borisenko, who have been aboard the complex since October.

Whitson will become the first woman to command the space station twice. Her first tenure as commander was in 2007, when she became the first woman to hold this post.

The crew is scheduled to return to Earth next spring. --

Thanks to NASA

Amateur Radio “Uniquely Situated” to be at Leading Edge Again, Conferees Told

11/10/2016

The dawn of so-called “smart” — or cognitive — radio has presented Amateur Radio with an opportunity to regain the leading edge in radio technology in the near future. It will also alter our view of spectrum as a limited resource. Those points and others were part of a forward-looking, tag-team Sunday Seminar presentation, “Spectrum (It’s the frequency crunch for real),” by Michelle Thompson, W5NYV, and Bob McGwier, N4HY, at the 2016 ARRL and TAPR Digital Communications Conference (**DCC**), September 16-18 in St. Petersburg, Florida. Thompson heads the AMSAT Ground Terminal Team, a component of the Phase 4B geosynchronous satellite project. McGwier is chief scientist at the Hume Center for National Security and Technology at Virginia Tech. This week, *HamRadioNow* made the entire 3-hour presentation available as part of its conference coverage: **HamRadioNow**

Episode 276 Parts 1, 2, and 3.

“If you put the smarts in the radio, what can possibly go wrong?” quipped Thompson, pointing to an example that demonstrated how sufficiently complicated technology is also more likely to fail.

Thompson said cognitive radio technology will alter the paradigm of treating spectrum as if it were land. “Spectrum is immediately reusable,” she said, “and land is not.” Regulation and spectrum allocation have been necessary to manage interference among services, but smart radios can avoid collisions among users, she said.

“[I]t hasn’t been until fairly recently that we’ve been able to inexpensively and quickly reconfigure a radio,” she said. Thompson’s Phase 4B project will take maximum advantage of cognitive radio technology, which can — among other things — determine an optimal clear frequency, mode, and path on the fly, transparently, and without human intervention.

McGwier called the computer “the tidal wave that has swept over Amateur Radio.” And, he predicted, “It is going to bring us back to becoming technical innovators.” He said radio

amateurs “are uniquely situated to be the leading edge in radio again.”

McGwier said the innovation needed in Amateur Radio will come about through what he called “Amateur Radio freedom,” that encourages experimentation and thinking outside the box. “It’s the ultimate democratic assignment of frequencies in the world,” he said.

He painted a picture of intelligent radio technology that will operate like the human brain. “It’s going to design the radio on the fly, from scratch, without a subject-matter expert involved,” he said. “The radio will be done by artificial intelligence, from beginning to end. The object becomes not the radio, but the activity it allows.”

Responding to a question, McGwier conceded that today’s hams may balk at this sort of paradigm shift, since it’s far removed from how most Amateur Radio communication takes place today. But he said embracing smart radio technology is what will attract a younger generation of new hams.

“We need to not limit what these kids can do with Amateur Radio,” he maintained. “They are going to outdo us, if we only allow

them. We can't limit them,
because this is a
fundamental paradigm shift."

Predicted McGwier: "You will
not recognize your world in
10 years."

The *HamRadioNow* present
ation also is available
in **audio** format, and a highly
condensed 11-
minute **synopsis** is available
on YouTube. — *Thanks to*
Gary Pearce,
KN4AQ/HamRadioNow

*Pictures from the
meeting*



